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In reference to the amendments, additions appear as underlined text, while deletions appear as bracketed text, as indicated below:

In the Specification:

Please amend the paragraph bridging pages 20 and 21 to read as follows:

To effect the gene therapy aspect of the present invention, the isolated, purified viral vector-containing the neurotrophin-encoding nucleic acid is injected into a subject's lateral ventricles or ventricular zone wall under conditions effective to express the neurotrophic factor and to induce neuronal production in the subject. "Subject" is meant herein to include any member of the class Mammalia including, without limitation, humans and nonhuman primates, such as chimpanzees and other apes and monkey species; farm animals including cattle, sheep, pigs, goats and horses; domestic animals including cats and dogs; laboratory animals including rodents such as mice, rats, and guinea pigs, and the like. The term does not denote a particular age or sex. Thus, adults and post-natal (newborn) subjects, as well as fetuses, are intended to be covered. [Injection of the neurotropic-encoding DNA into the lateral ventricles or ventricular zone wall of the subject's brain involves]

In the Claims:

Please amend claims 1, 6, 13, 18, 28, 37, and 44 as follows:

1. (Amended) A method of inducing neuronal production in post-natal and adult brain [and spinal cord] comprising:

providing a nucleic acid construct encoding a neurotrophic factor and

injecting the nucleic acid construct into a subject's lateral ventricles or ventricular zone wall under conditions effective to express the

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neurotrophic factor and to induce neuronal production in any or or all of the [brain and spinal cord] caudate nucleus, the putamen, and/or the globus pallidus of the subject.

6. (Amended) A method according to claim 1, wherein the nucleic acid construct further comprises an inducible or conditional [promotor] promoter for controlling expression of the neurotrophic factor.

13. (Amended) A method of recruiting neurons to a subject's brain comprising:

providing a nucleic acid construct encoding a neurotrophic factor and

injecting the nucleic acid construct into the subject's lateral ventricles or ventricular zone wall under conditions effective to express the neurotrophic factor and to recruit neurons to [the brain] any one or all of the caudate nucleus, the putamen, and/or the globus pallidus of the subject.

18. (Amended) A method according to claim 13, wherein the nucleic acid construct further comprises an inducible or conditional [promotor] promoter for controlling expression of the neutrophic factor.

28. (Amended) A method of treating a neurodegenerative condition comprising:

providing a nucleic acid construct encoding a neurotrophic factor and

injecting the nucleic acid construct into a subject's lateral ventricles or ventricular zone wall under conditions effective to treat a neurodegenerative condition.

37. (Amended) A method according to claim 28, wherein the nucleic acid construct further comprises an inducible or conditional [promotor] promoter for controlling expression of the neutrophic factor.

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44. (Amended) A method of treating a neurodegenerative condition comprising:

providing a neurotrophic factor and

introducing [injecting] the neurotrophic factor into any one or all of a subject's [lateral ventricles or ventricular wall zone] caudate nucleus, putamen, and/or globus pallidus under conditions effective to treat a neurodegenerative condition.